

```
graph TD; 102[DATA CONTENT] -- 110 --> 120[RASTER IMAGE PROCESSING]; 120 -- 130 --> 140[TRANSMIT OUTPUT DATA TO OUTPUT DEVICE]; 140 -- 150 --> 160[RECEIVE OUTPUT DATA]; 160 -- 170 --> 180[GENERATE FINAL OUTPUT];
```

The flowchart illustrates a process for generating a final output from data content. It begins with a box labeled "DATA CONTENT" (102). An arrow points down to a box labeled "RASTER IMAGE PROCESSING" (110). From there, an arrow points down to a box labeled "CREATE DEVICE-DEPENDENT OUTPUT DATA" (120). Another arrow points down to a box labeled "TRANSMIT OUTPUT DATA TO OUTPUT DEVICE" (130). A thick, jagged arrow points down to a box labeled "RECEIVE OUTPUT DATA" (140). Finally, an arrow points down to a box labeled "GENERATE FINAL OUTPUT" (150). Brackets on the right side group the steps: a bracket labeled "INFORMATION APPARATUS" groups steps 110, 120, and 130; a bracket labeled "OUTPUT DEVICE" groups steps 140 and 150.

```
graph TD
    104[104] --> 100[DATA CONTENT]
    100 --> 160[GENERATE OUTPUT DATA IN PDL]
    160 --> 170[TRANSMIT OUTPUT DATA TO OUTPUT DEVICE]
    170 --> 180[RECEIVE OUTPUT DATA]
    180 --> 190[RASTER IMAGE PROCESSING]
    190 --> 150[GENERATE FINAL OUTPUT]
```

The flowchart illustrates the architecture of a printing system, divided into two main functional blocks: the **INFORMATION APPARATUS** and the **PRINTER CONTROLLER**.

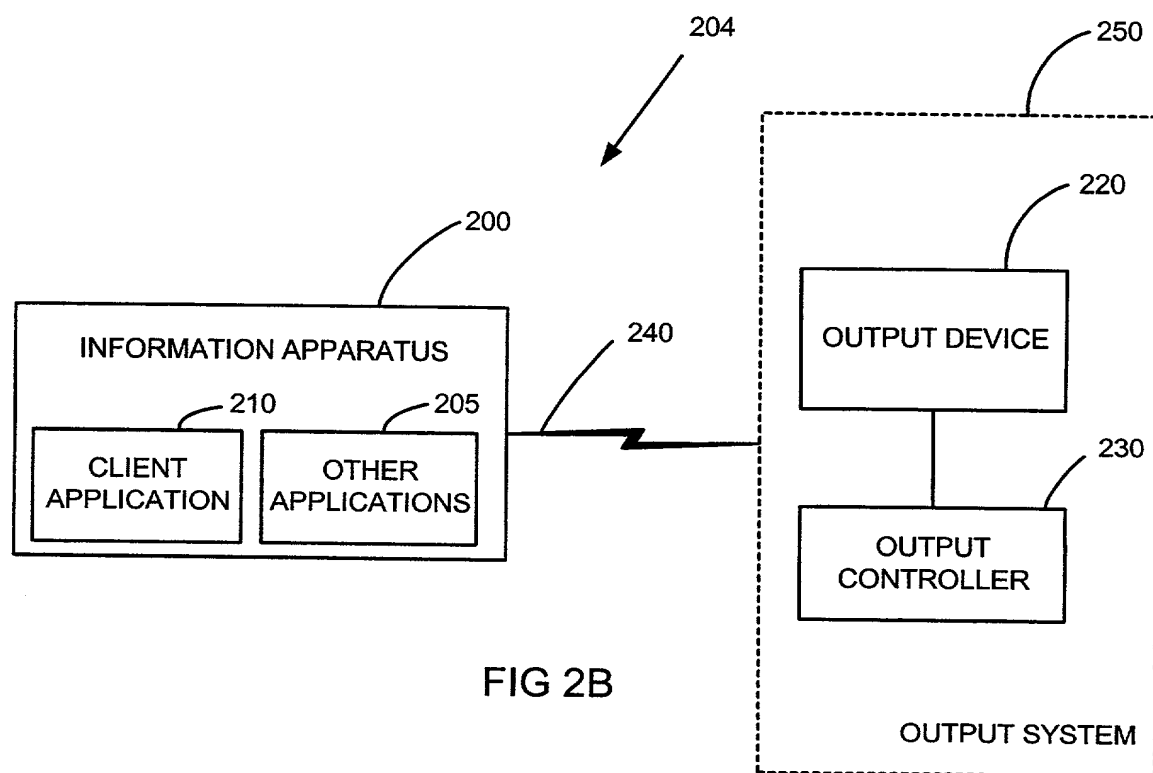
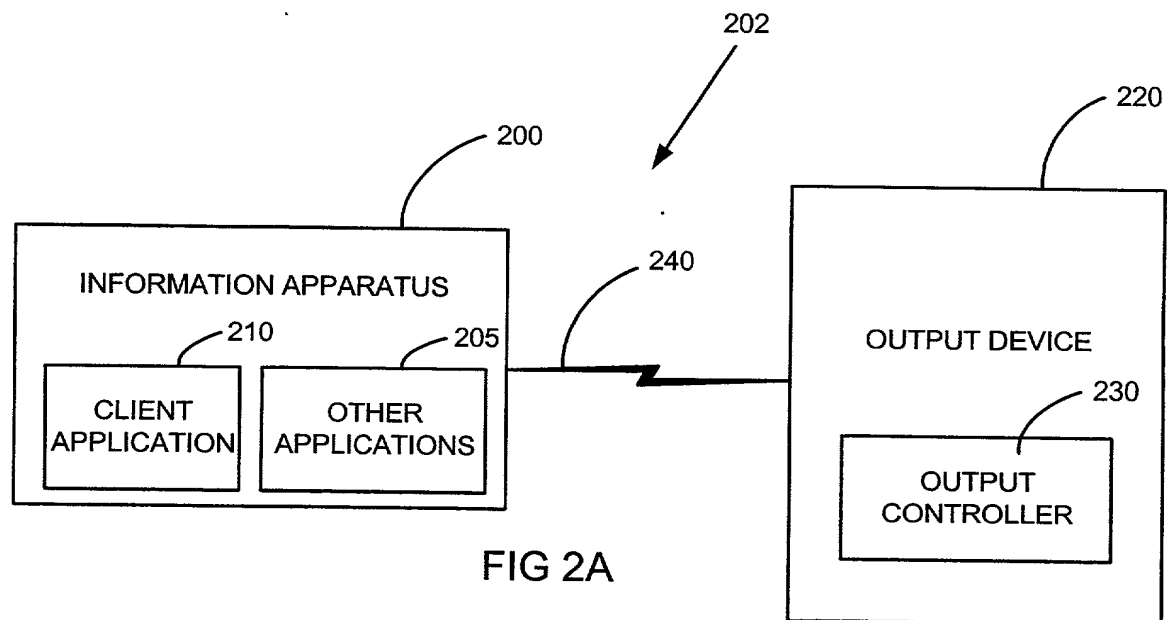
INFORMATION APPARATUS: This block contains the first three steps of the process:

- 100 DATA CONTENT:** The initial data to be printed.
- 160 GENERATE OUTPUT DATA IN PDL:** The data is converted into PostScript Description Language (PDL).
- 170 TRANSMIT OUTPUT DATA TO OUTPUT DEVICE:** The PDL data is sent to the printer controller.

PRINTER CONTROLLER: This block contains the final three steps of the process:

- 180 RECEIVE OUTPUT DATA:** The printer controller receives the PDL data from the information apparatus.
- 190 RASTER IMAGE PROCESSING:** The PDL data is processed into a raster image.
- 150 GENERATE FINAL OUTPUT:** The final output is generated, which may be printed or stored.

The flow of data is indicated by arrows: from 100 to 160, 160 to 170, 170 to 180, 180 to 190, and 190 to 150. A lightning bolt symbol is used to represent the transmission of data between the information apparatus and the printer controller.



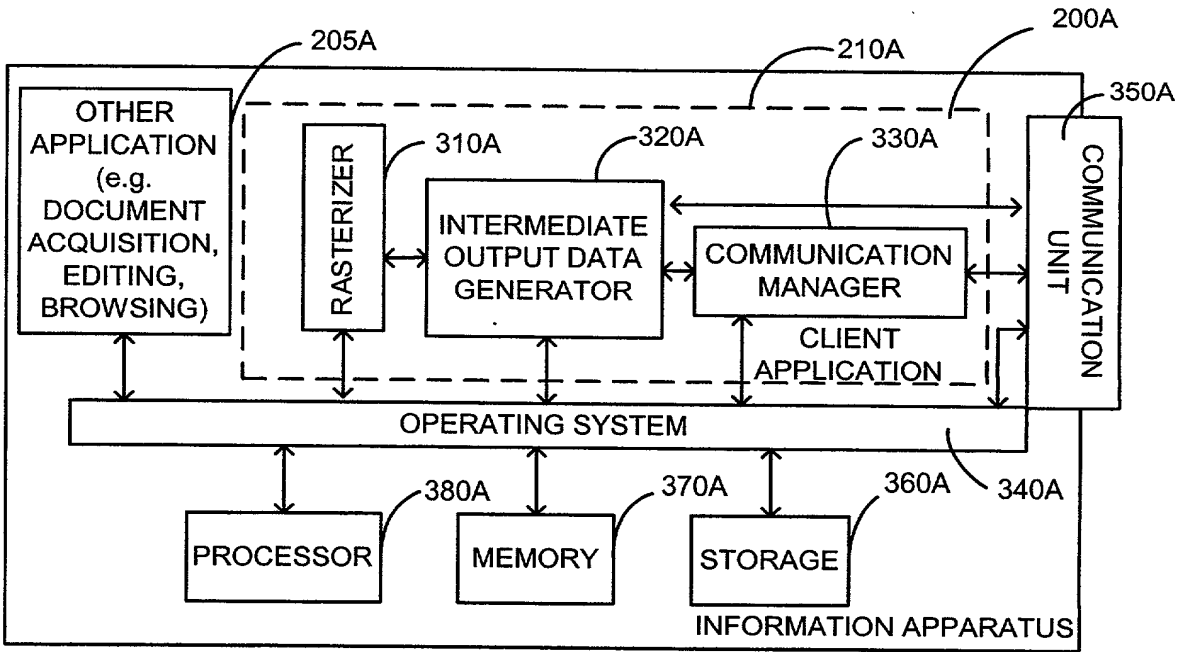


FIG 3A

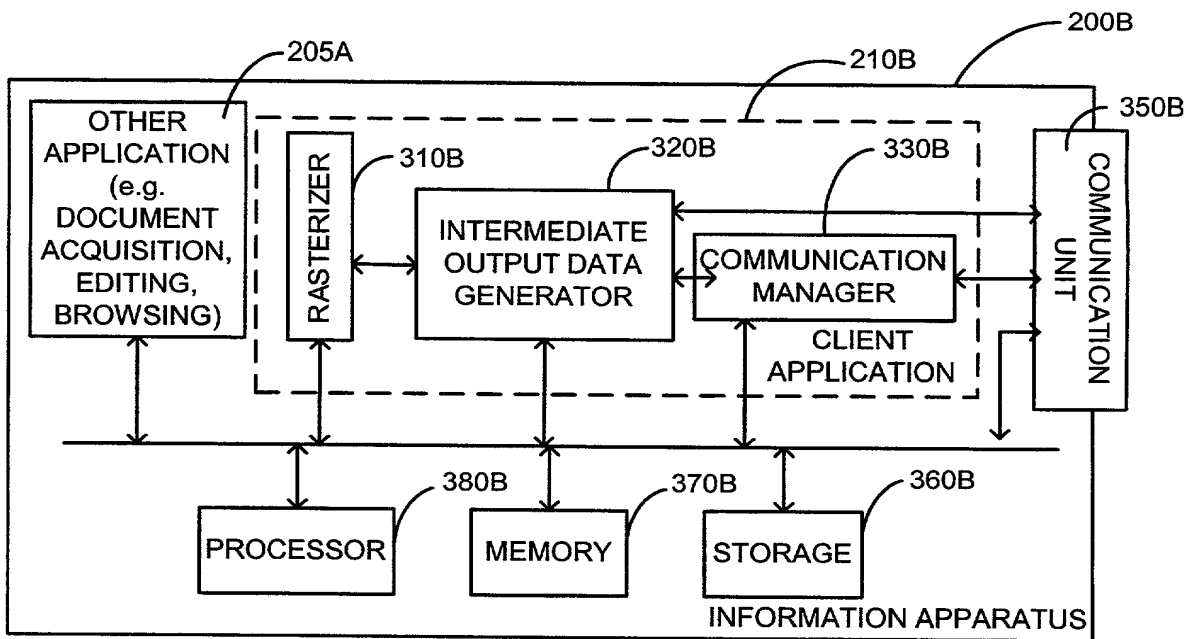


FIG 3B

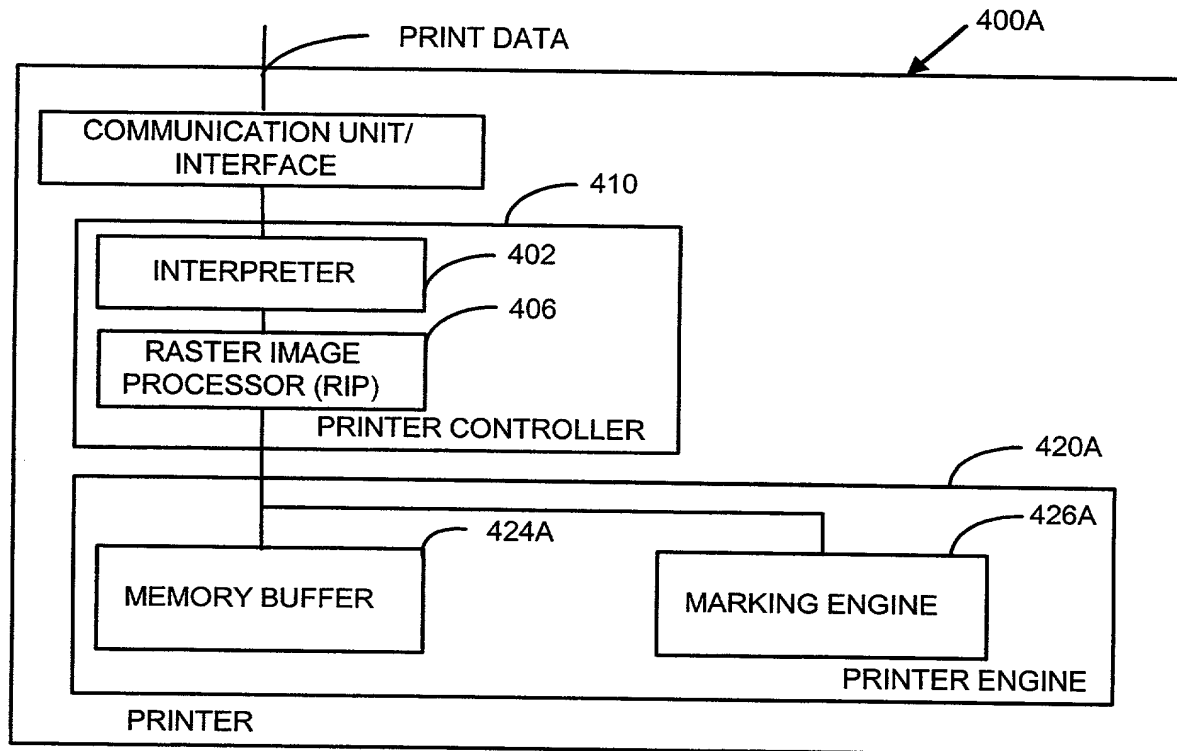


Fig. 4 A

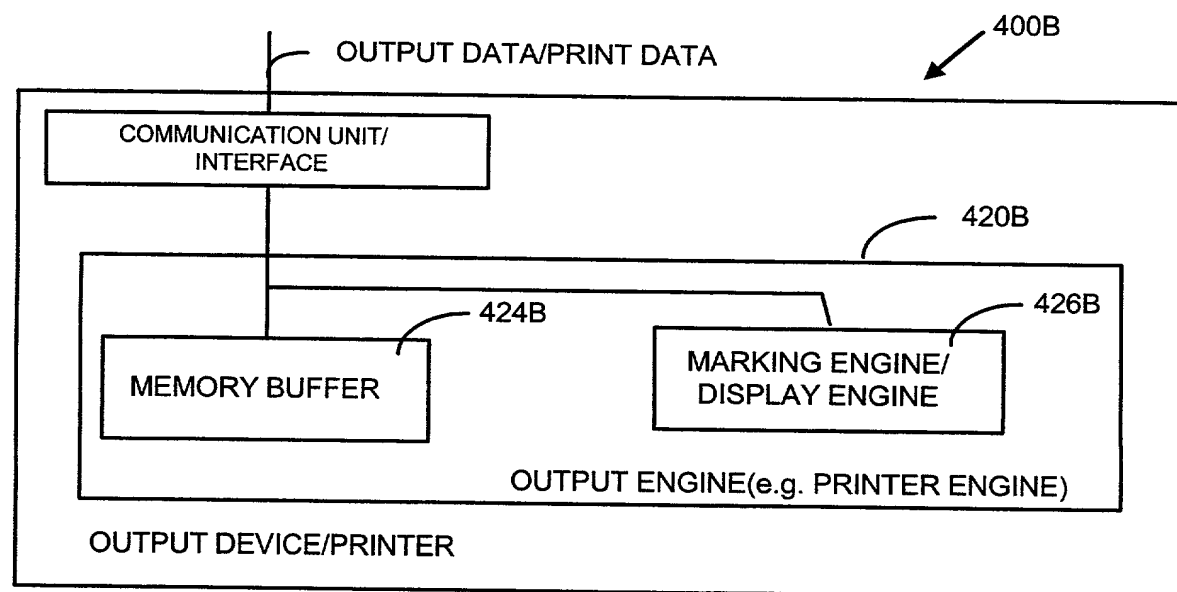


Fig. 4 B

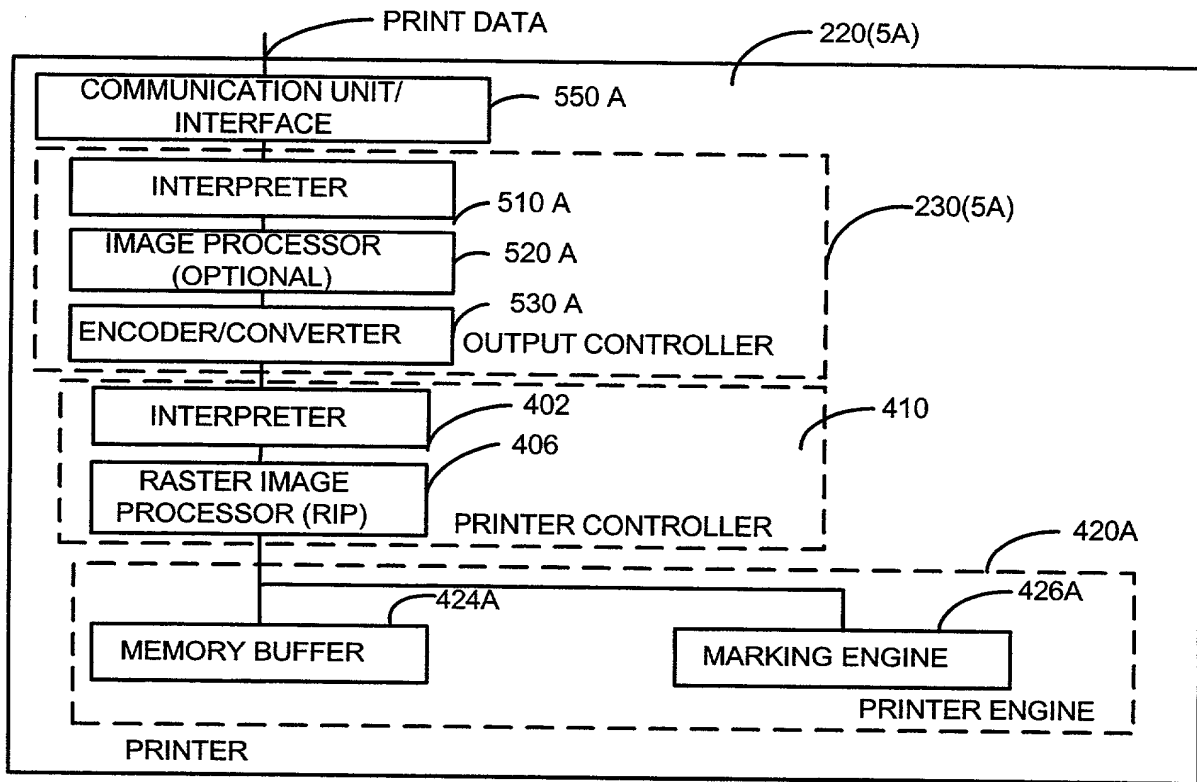


Fig. 5 A

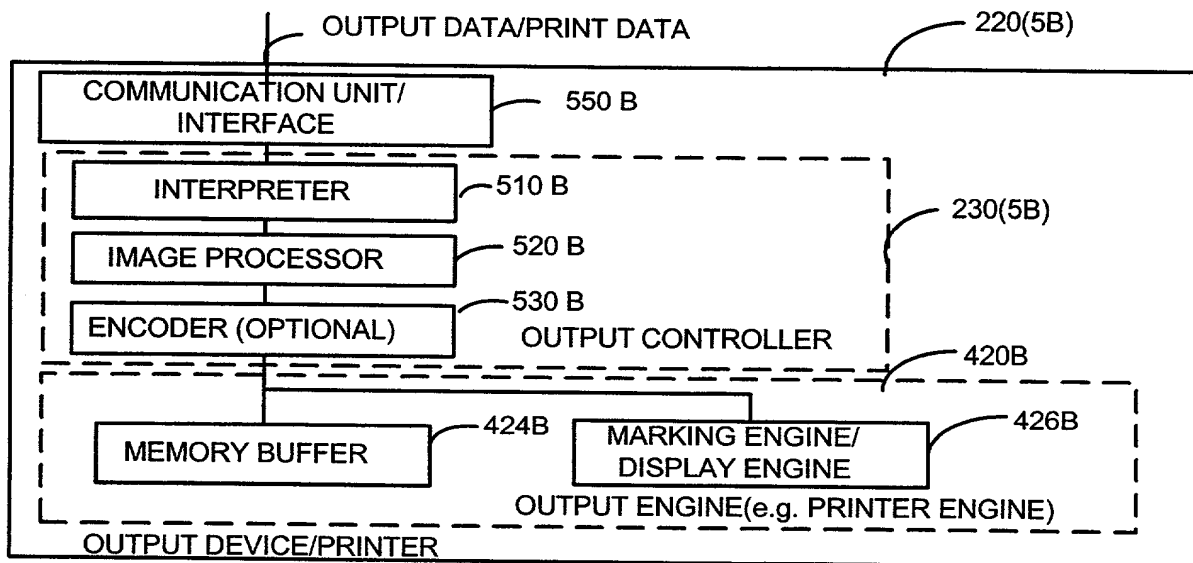


Fig. 5 B

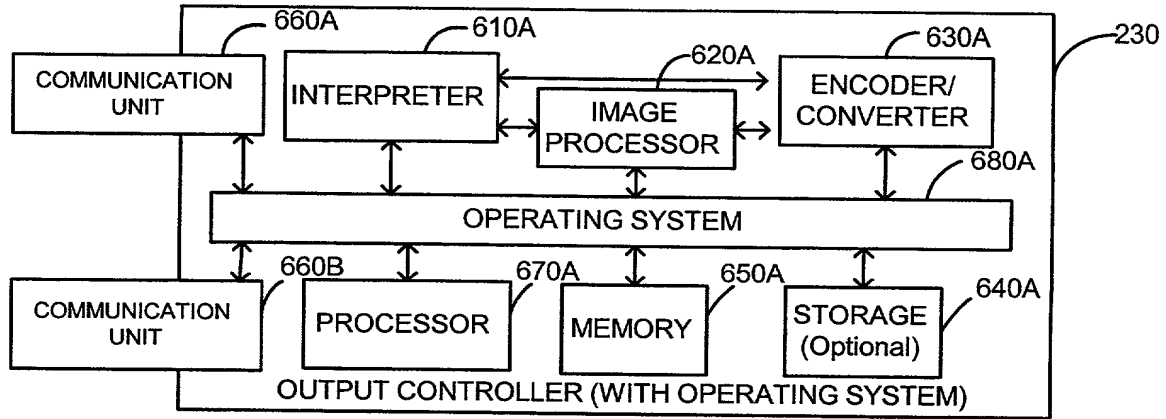


Fig 6 A

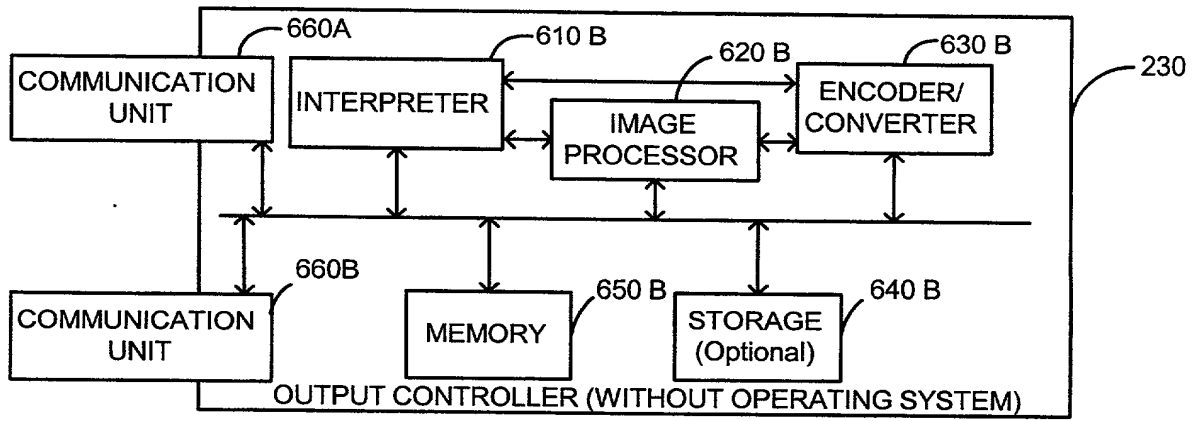


FIG 6 B

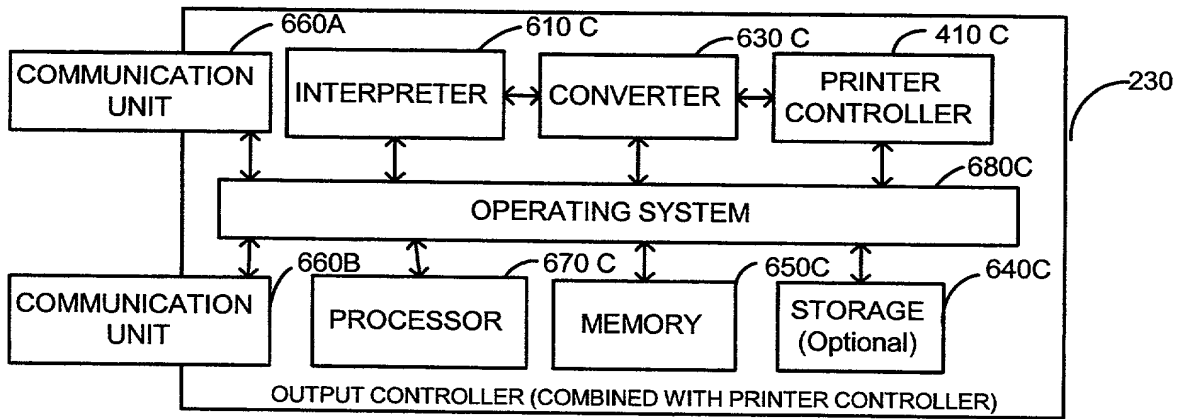


FIG 6 C

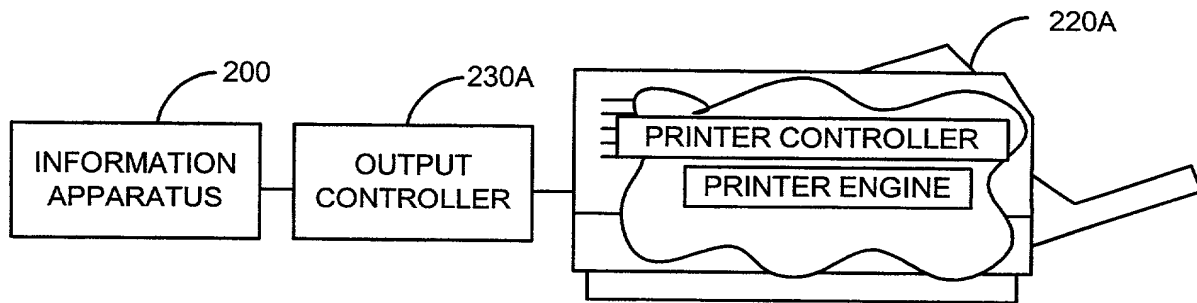


Fig. 7A

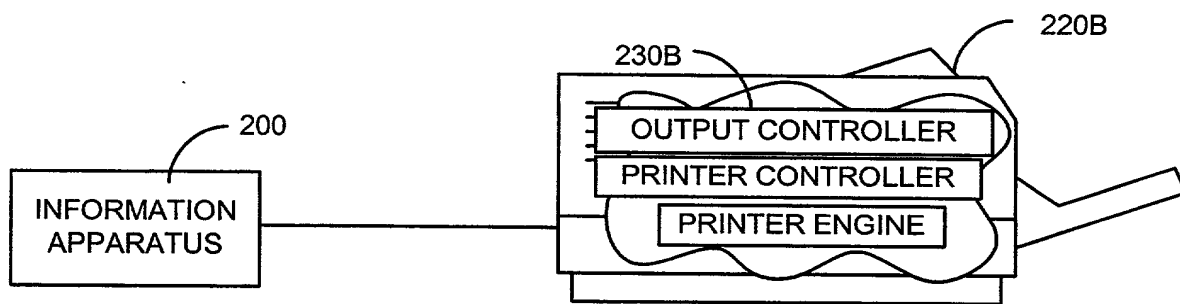


Fig. 7B

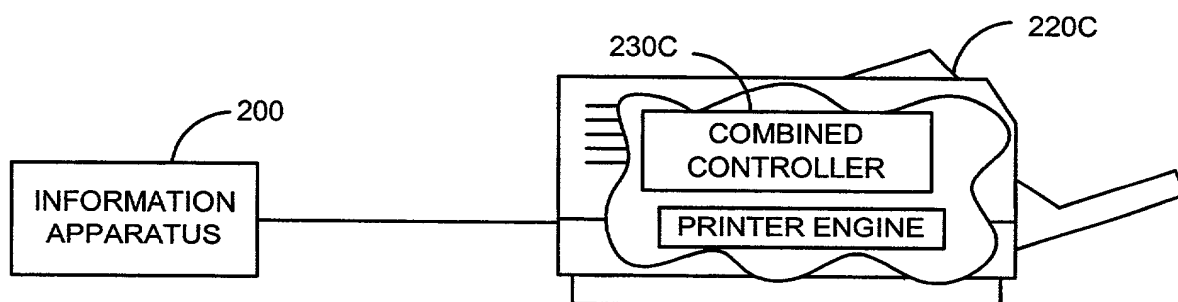


Fig. 7C

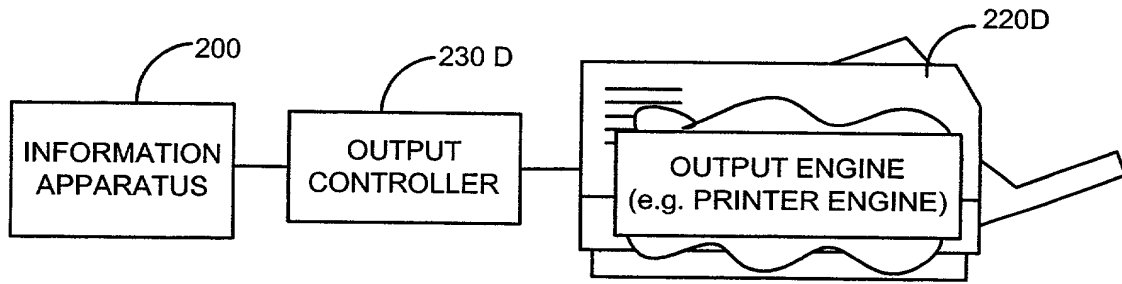


FIG 7D

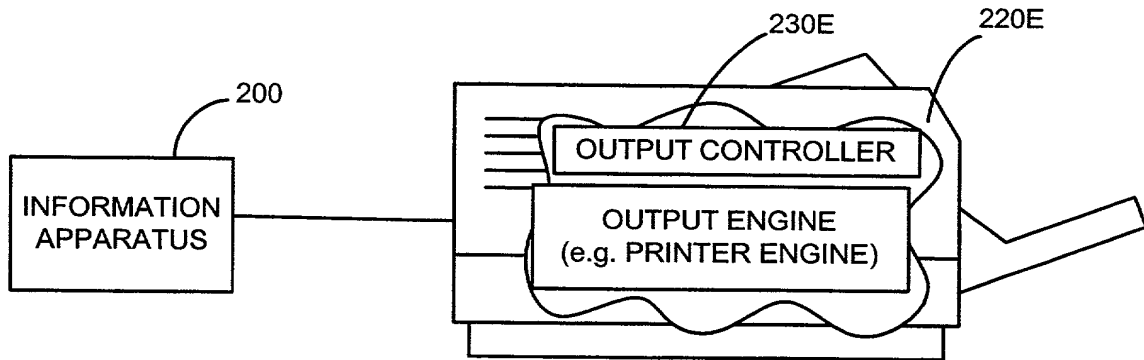


FIG 7E

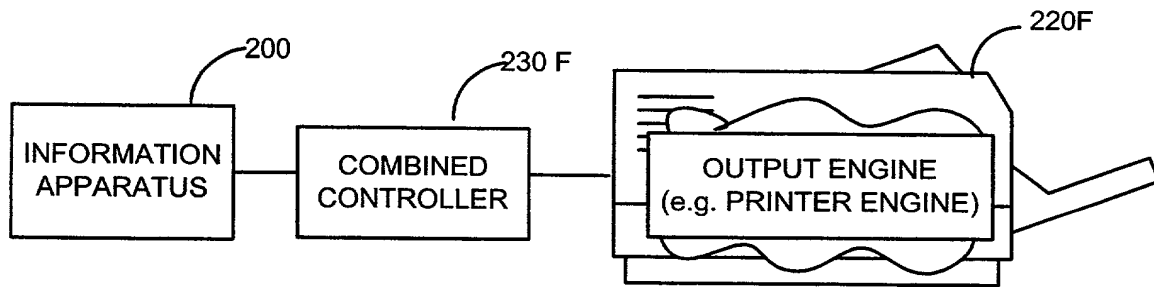


FIG 7F

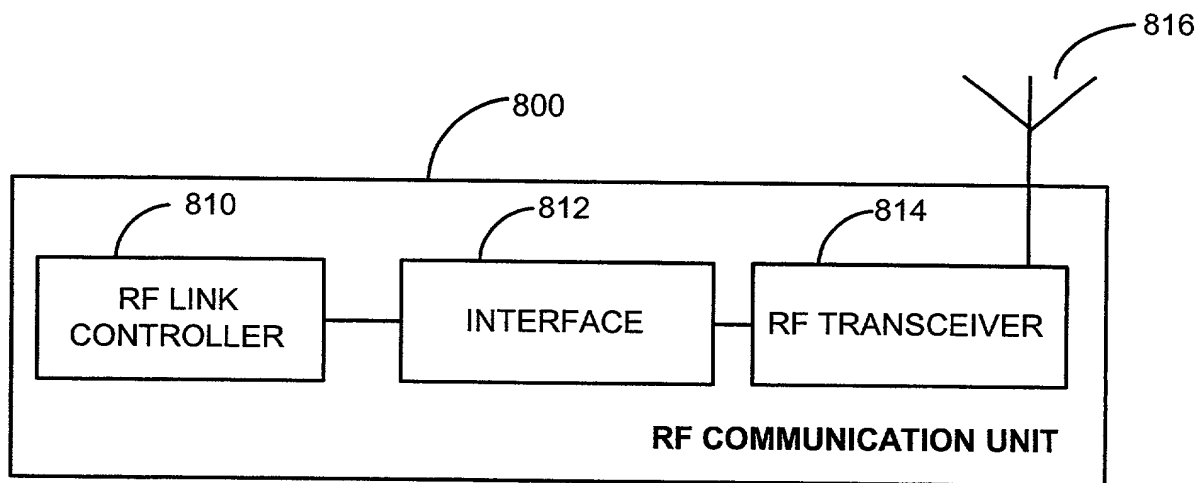


FIG 8A

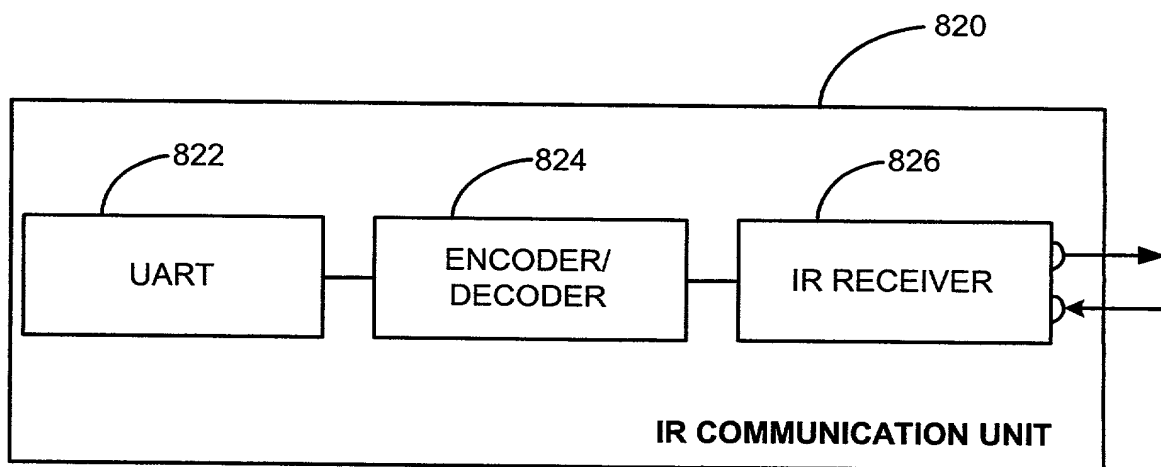


FIG 8B

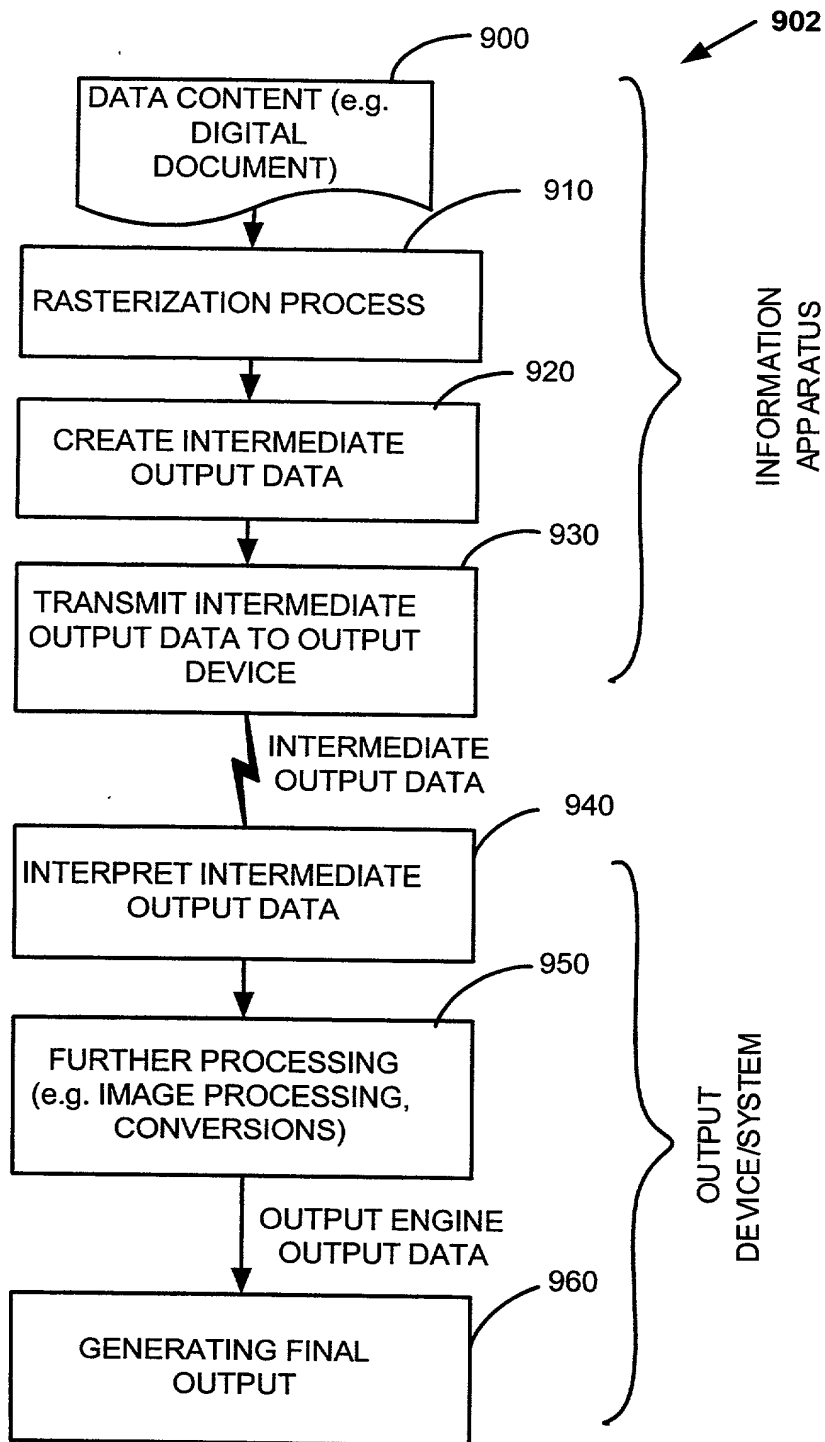


FIG 9

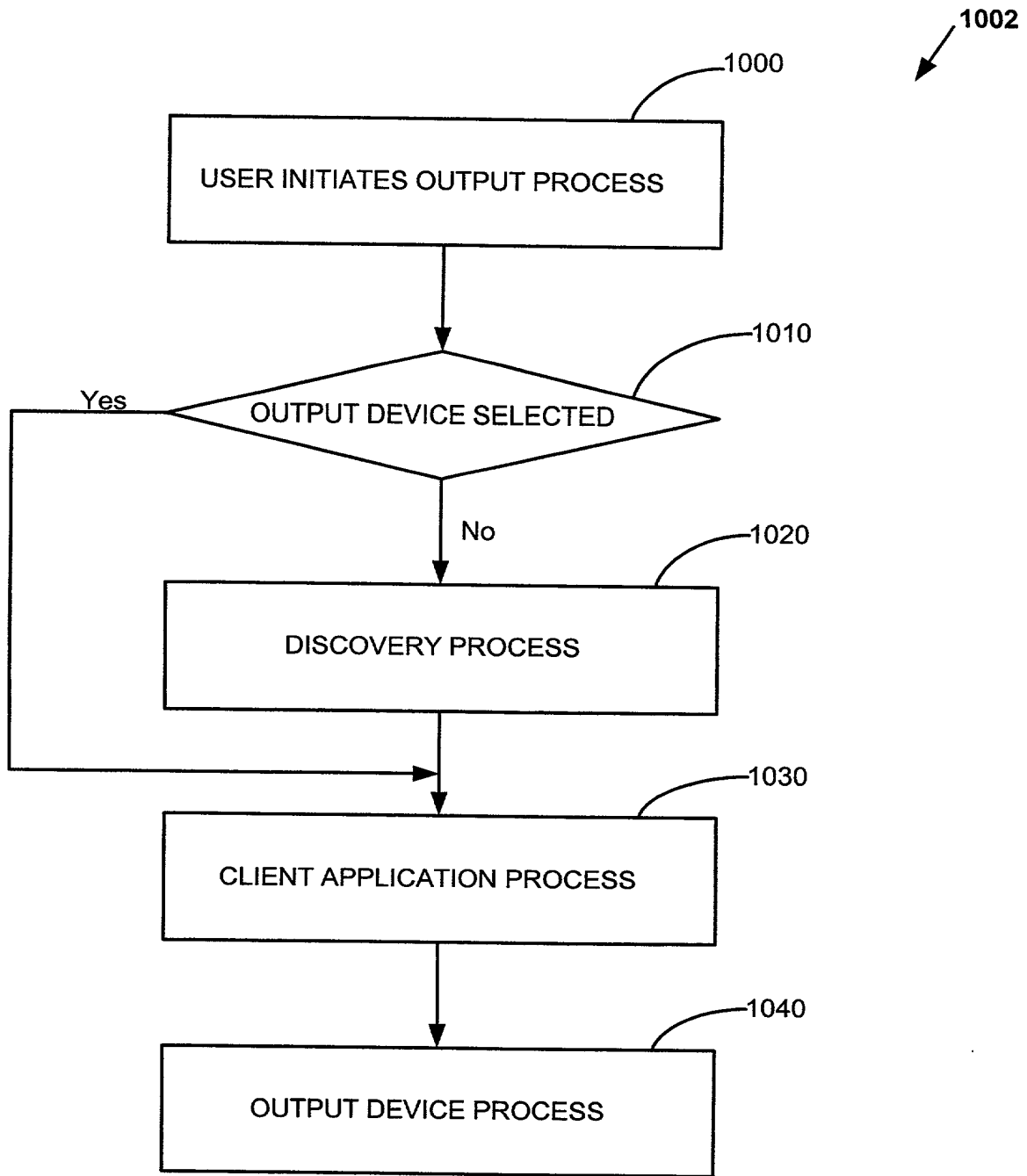


FIG 10

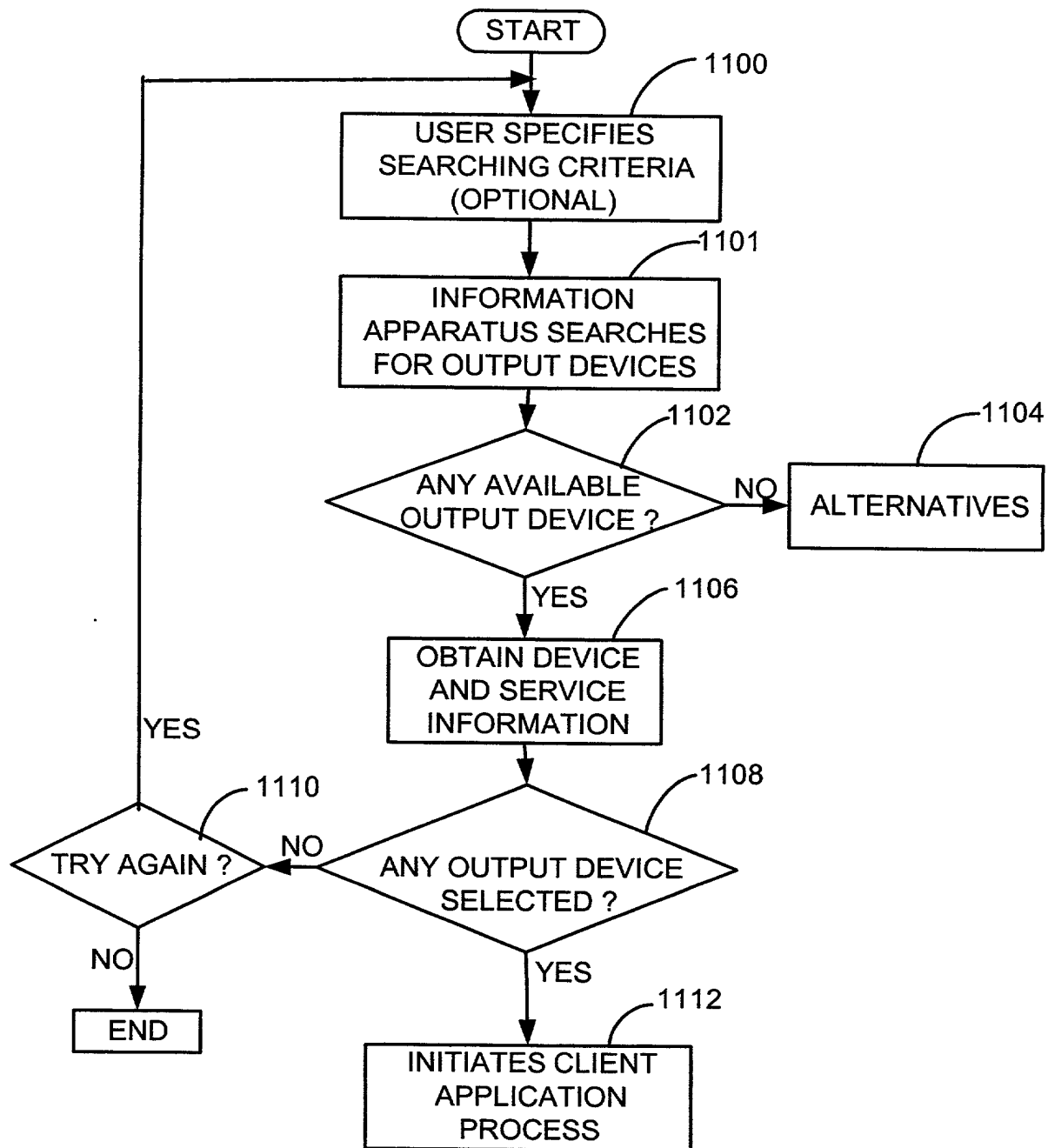


FIG 11

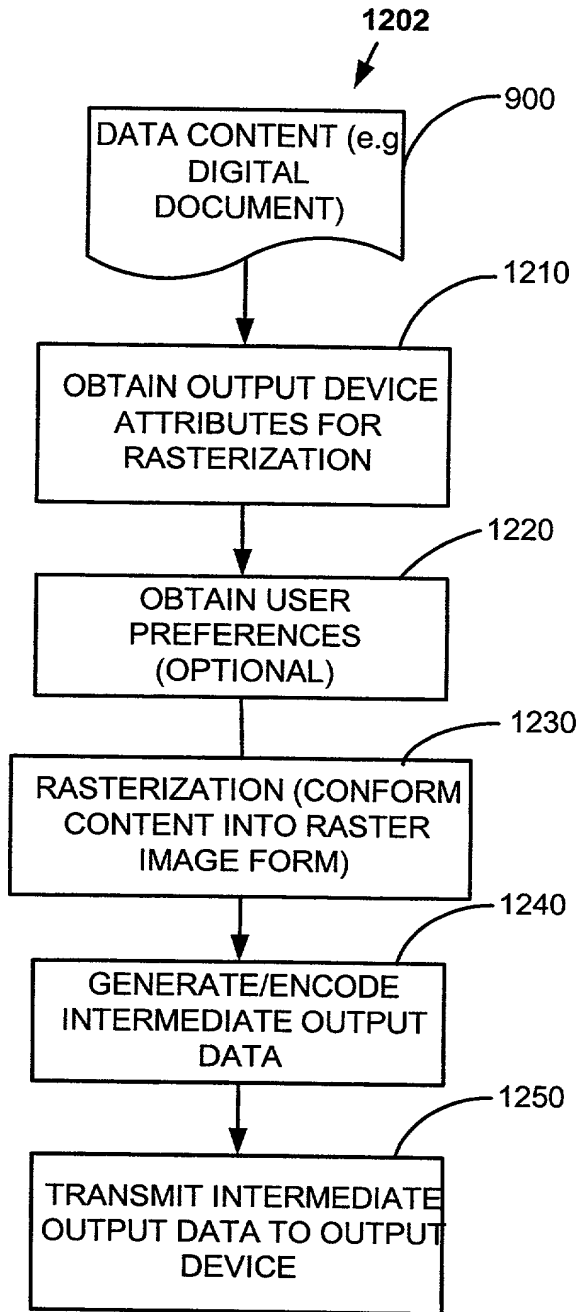


FIG 12 A

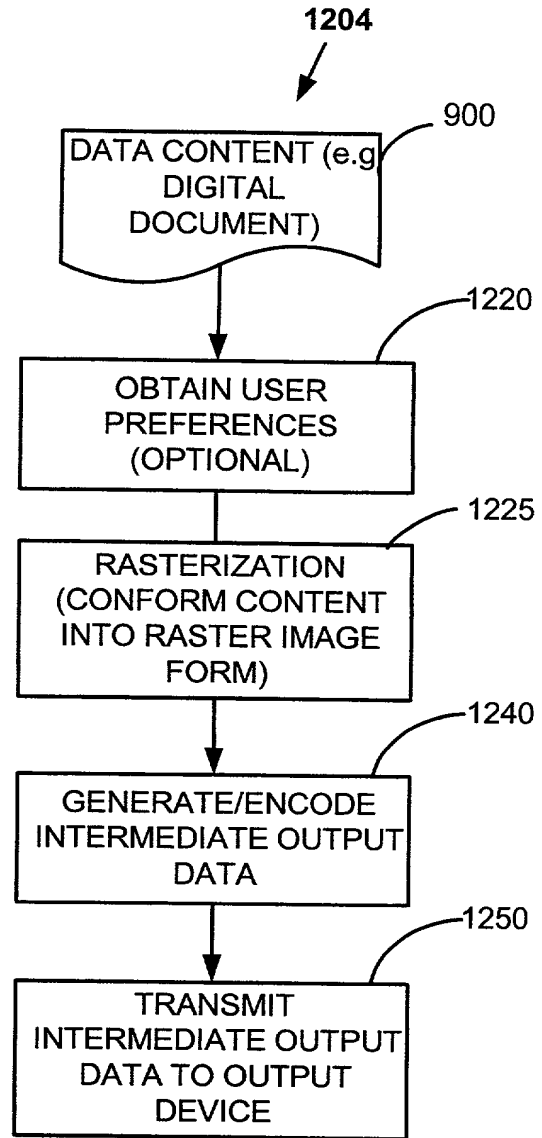


FIG 12 B

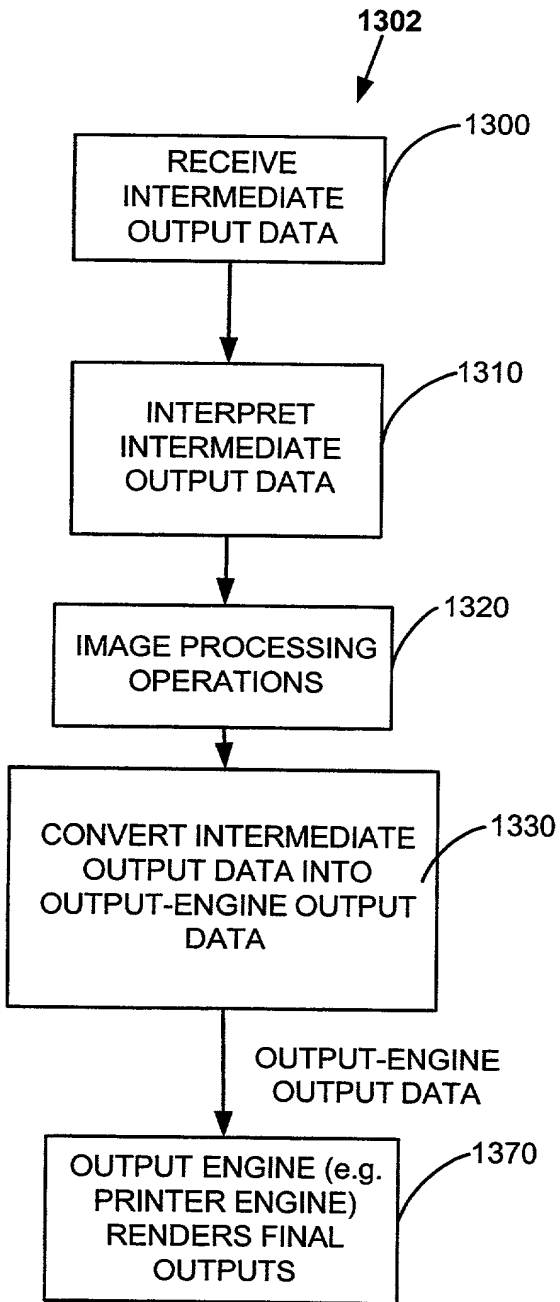


FIG 13 A

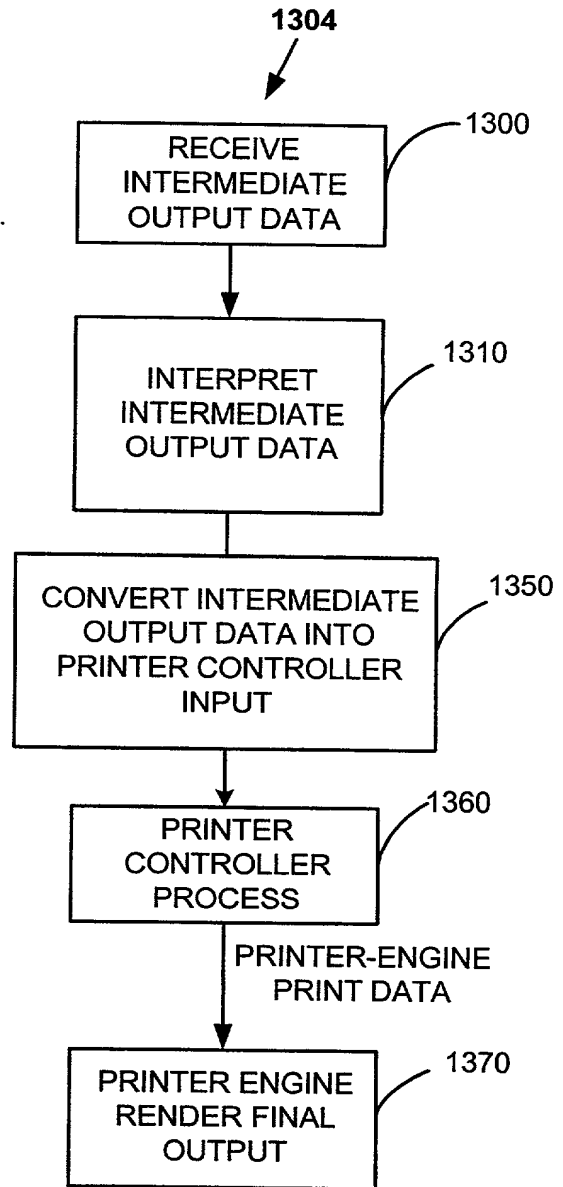


FIG 13 B